OIPE SC185
JUN 0 8 2001
PATENT & TRADEMARK OFFICE

GP/3739
#8/A

In the United States Patent and Trademark Office

Appln. Series No: 09/706,382
Appln filed: 11/06/00
Applicant: J. T. Lin

New address: 4532 Old Carriage Trail, Oviedo, FL 32765
Tel: (407)482-4555 (office)

Title: Apparatus and Methods for the Treatment of Prsbyopia ~~using~~ using Fiber-coupled Lasers

AMENDMENT A (submitted on June 7, 2001) by J.T. Lin 6/7/01

Examiner: David Burd/3739

Fed. Exp. No. 8287 0792 8197

Assistant Commissioner for Patent
Patent Office, DC

Dear Sir:

In response to your Office Action mailed on 04/12/01, please find Amendment below .

RECEIVED
JUN 11 2001
TECHNOLOGY CENTER R3700

(I) Version of replacements:

CLAIMS:

Sub E

1. A method, adaptable for performing presbyopic correction in which a portion of the corneal sclera tissue is removed by steps of :

(a) selecting a laser beam having a predetermined wavelength ;
(b) selecting a beam spot controller mechanism, said beam spot controller to reduce and focus said laser beam to a fiber delivery unit;
(c) controlling the said fiber delivery unit to deliver said laser beam in a said predetermined pattern onto a plurality of positions on the corneal surface to remove portion of the sclera tissue outside the limbus area, whereby a presbyopic patient's vision is corrected to see near by increasing the accommodation of the corneal lens.

2. A method of claim 1, wherein said laser beam is an ultraviolet laser having a wavelength range of about (0.15 - 0.36) microns and a pulse duration less than about 200 nenoseconds.

A1

3. A method of claim 1, wherein said laser beam is an infrared laser having a wavelength range of about (1.4 - 3.2) microns.

4. A method of claim 3, wherein infrared laser is an optically pumped Erbium:YAG laser having a wavelength of about 2.9 microns.

5. A method of claim 1, wherein said laser beam is an ArF excimer laser having a wavelength of 193 nm.

6. A method of claim 1, wherein said laser beam is a XeCl excimer laser having a wavelength of 308 nm.

7. A method of claim 1, wherein said laser beam is a solid state diode laser having a wavelength range of about (0.95 – 2.1) microns with a power higher than 2 Walt and focused to a spot size